

Louisiana-Pacific Corporation



- **Products** - building materials and industrial wood products
- **International** - over 100 sites in U.S., Canada, Ireland, with 12,500 employees
- **Worlds largest producer** of Oriented Strand Board (OSB)
- **Commitment** to become an environmental leader with zero emissions, zero violations

Increased Efficiencies- Tomahawk, WI



- **Dryer System Optimization**

- Combustion air pre-heater installed
- Furnace Cooling Fans removed
- Combustion air fan horsepower reduced
- Induced draft fan horsepower reduce

- **Compressed Air System Improvements**

- Leaks eliminated, controls upgraded, and operators trained
- One 100 hp compressor taken off line

Results



- Dryer Improvements

- Financial return

- Investment of \$44,000
 - Annual savings estimated at \$72,000

- Reduced electric power plant emissions

- Carbon Dioxide 2,300 tons per year
 - Carbon Equivalent 629 tons per year
 - Sulfur Oxides 12 tons per year
 - Nitrogen Oxides 6 tons per year

- Compressed Air System

- \$300 investment = \$5,600 annual savings

Additional Benefits



- Tomahawk project provided proof that upgrades to older plants is viable
- L-P Advanced Technology Center evaluating system improvements for other plants
- Increased awareness among employees has resulted in more improvement ideas

Our Partner



- **Energy Center of Wisconsin provided technical assistance**
 - **Engineering study of dryer system**
 - **Opportunities identified**
 - **Solutions proposed**



Energy and the Environment



- **Other L-P examples**
 - **Cocoon[®] insulation made with recycled paper**
 - **Wood recovery program - plants recycle bark, wood chips for mulch, berms, trails**